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November 18, 2005

Total Number of Pages  
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**Examiner Qutbuddin Ghulamali  
GROUP ART UNIT 2661**

Business Phone (571) 272-3014

Telecopier Phone: (571) 273-8300

From: Dec So for ADRIAN J. LEE

Comments: Please see attached.

Serial No. 09/701,705

Docket No. 15689.61

\*\*\*\*\*

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NOV 18 2005

PATENT APPLICATION

Docket No: 15689.61

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of		)
		)
	Yukihiko OKUMURA et al.	)
		)
Serial No.:	09/701,705	) Art Unit
		) 2661
Filing Date:	December 1, 2000	)
		)
For:	Channel Estimation Device and	)
	Method, Demodulation Device and	)
	Method, and Fading Frequency	)
	Decision Device and Method	)
		)
Confirmation No.:	7195	)
		)
Examiner:	Quthuddin Ghulamali	)
		)
Customer No.:	022913	)

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Mail Stop AMENDMENT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

I hereby certify that this paper is being facsimile transmitted to the Patent and Trademark Office at facsimile number (571) 273-8300 on the date shown below.

- Transmittal Letter for Amendment "B" and Response (3 pages) (in duplicate)
- Amendment "B" and Response (34 pages)
- PTO 2038 Credit Card form for \$600.00
- Facsimile Cover Sheet (1 page)

Dated this 18<sup>th</sup> day of November, 2005.

Respectfully submitted,



ADRIAN J. LEE  
Registration No. 42,785  
Attorney for Applicant

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**FILED VIA FACSIMILE - (571) 273-8300**

**PATENT APPLICATION  
Docket No: 15689.61**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Yukihiko OKUMURA et al.

Serial No.: 09/701,705

Filing Date: December 1, 2000

For: **CHANNEL ESTIMATION DEVICE AND METHOD, DEMODULATION DEVICE AND METHOD, AND FADING FREQUENCY DECISION DEVICE AND METHOD**

Confirmation No.: 7195

Examiner: Qutbuddin Ghulamali

Customer No.: 022913

Art Unit  
2661



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 PHILIP B. MANN, JR.  
 L. RAY SPAIN, III  
 WILLIAM R. RUFFIN  
 ROBERT R. AYER  
 JENNIFER C. JENNINGS  
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 WILLIAM J. AUSTIN  
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 WESLEY C. HANSEN  
 ANDREW S. HANSEN  
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 BRIAN K. JENSEN  
 JONATHAN M. BISHOP, III  
 SCOTT A. WOODRUFF  
 JOHN T. GARD  
 MARK W. FORD  
 ANDREW M. SMITH

### TRANSMITTAL FOR AMENDMENT "B" AND RESPONSE

Mail Stop AMENDMENT  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

Sir:

Transmitted herewith is an Amendment "B" for entry in the above-identified application.

\_\_\_\_\_  
 Small entity status of this application under 37 C.F.R. § 1.9 and § 1.27 has been established by a verified statement previously submitted.

VERNON H. KILGUS  
ATTORNEY

Admitted only in California  
Admitted only in Virginia

November 18, 2005  
Page 2

\_\_\_\_\_ To secure the approval of the Examiner for proposed amendments to the drawings, enclosed are the following:

- \_\_\_\_\_ Letter to the Official Draftsperson;
- \_\_\_\_\_ Set of \_\_\_\_\_ ( ) sheets of drawings containing Figures \_\_\_\_\_ including the proposed amendments therein; and
- \_\_\_\_\_ A duplicate set of the \_\_\_\_\_ ( ) sheets of drawings with the changes therein highlighted in red.

\_\_\_\_\_ To render the transmitted Amendment "B" timely filed enclosed are the following:

- \_\_\_\_\_ Petition for a one (0)-Month Extension of Time; and
- \_\_\_\_\_ PTO 2038 Credit Card form in the amount of \$0.00 to cover the fee for the extension of time.
- X   A Certificate of Facsimile.
- \_\_\_\_\_ No other additional fee is required.

The fee has been calculated as follows:

			SMALL ENTITY		LARGE ENTITY	
CLAIMS REMAINING AFTER	HIGHEST NO. PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE	ADD'L FEE	RATE	ADD'L FEE
TOTAL 79	MINUS 108	= 0	X		X	
INDEPENDENT 24	MINUS 21	= 3	X		X 200.00	600.00
1 <sup>st</sup> PRESENTATION OF MULTIPLE DEPENDENT CLAIM			+ _____		+ _____	
			<b>TOTAL</b>		<b>TOTAL</b>	600.00

November 18, 2005

Page 3

X PTO 2038 Credit Card form in the amount of \$600.00 is enclosed to cover the additional claim fee.

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X The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 23-3178.

X Any filing fees under 37 CFR 1.16 for the presentation of extra claims.

X Any patent application processing fees under 37 CFR 1.17.

\_\_\_\_\_ A duplicate copy of this transmittal letter is attached.

Dated this 18<sup>th</sup> day of November 2005.

Respectfully submitted,



ADRIAN J. LEE  
Attorney for Applicant  
Registration No. 42,785  
Customer No. 022913

All:ds  
130000001344V001

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 LARRY R. JENSEN  
 JONATHAN W. RICHARDS  
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Docket No: 15689.61**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Yukihiko OKUMURA et al.

Serial No.:

09/701,705

Art Unit  
2661

Filing Date:

December 1, 2000

For:

**CHANNEL ESTIMATION DEVICE AND  
METHOD, DEMODULATION DEVICE AND  
METHOD, AND FADING FREQUENCY  
DECISION DEVICE AND METHOD**

Confirmation No.:

7195

Examiner:

Qutbuddin Ghulamali

Customer No.:

022913



R. PARSONS FREEMAN, JR.  
 PETER J. MALONE, JR.  
 L. RICK STARS, PH.D.  
 WILLIAM R. BUCHER  
 ROBERT E. AVANCE  
 JESS C. JENKINS  
 MICHAEL B. DODD  
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1 <sup>st</sup> PRESENTATION OF MULTIPLE DEPENDENT CLAIM			+ _____		+ _____	
			TOTAL		TOTAL	600.00

November 18, 2005  
Page 3

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A duplicate copy of this transmittal letter is attached.

Dated this 18<sup>th</sup> day of November 2005.

Respectfully submitted,



ADRIAN J. LEE  
Attorney for Applicant  
Registration No. 42,785  
Customer No. 022913

AJL:ds  
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DECISION DEVICE AND METHOD

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Customer No.:

022913

AMENDMENT "B"

Mail Stop AMENDMENT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

11/21/2005 TL0111 00000016 09701705

01 FC:1201

600.00 OP

Dear Sir:

In response to the Office action of August 30, 2005 (paper no. 20050822), please amend the above-identified application as follows:

**Amendments to the Specification** begin on page 2 of this paper.

**Amendments to the Claims** are reflected in the listing of claims which begins on page 3 of this paper.

**Remarks/Arguments** begin on page 32 of this paper.

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